672HY SIST3-4

I

ACCESSORIO PER SMONTAGOMME

GB

TYRE CHANGER ACCESSORIES

Manuale di istruzioni per l'uso e la manutenzione dello

ACCESSORIO PER SMONTAGOMME

Modello 672HY SIST3-4

Matricola N°

Anno di costruzione

COSTRUTTORE:

OMA S.p.A.
Sede centrale: Via dell'Artigianato, 64
36045 LONIGO (VI) - ITALY
Telefono ++39 0444 436199
Telefax ++39 0444 436208

1ª Emissione 19/10/2007

CENTRO DI ASSISTENZA AUTORIZZATO:

Instructions and maintenance manual for

TYRE CHANGER ACCESSORIES

Model 672HY SIST3-4

Serial N°

Year of manufacture

MANUFACTURER:

OMA S.p.A.
Head office: Viadell'Artigianato, 64
36045 LONIGO (VI) - ITALY
Telefono ++39 0444 436199
Telefax ++39 0444 436208

1th Edition - 19/10/2007

AUTHORISED SERVICE CENTRE:

Indice

672HY SIST3 Pag. 3

Smontaggio del pneumatico Pag. 3

Montaggio del pneumatico Pag. 6

672HY SIST4 Page 7

Contents

672HY SIST3 Page 3

Demount the tyre Page 3

Mounting the tyre Page 6

672HY SIST4 Page 7

672HY SIST3

User's manual for the helping device 672HY SIST3 used on the machine with 20.or larger turntable

The helper of ASSISTANT H3 can be used on the machine with 20.or larger turntable.
It can improve the working efficiency, make the operation safely and easily, especially for the stiff, low profile tyre. Before use this helper, user read the machine manual first,use the helper reference to this manual.

Demount the tyre:

1.Release all the air inside the tyre.

2.Remove the weight on the rim. (Fig.1)
(Fig.1)

Fig.1

3. Place the tyre between the bead breaker blade and rubber pad, then place the bead breaker blade between the bead and tyre. The bead breaker blade should 2 cm from the bead,then step the pedal to separate the bead from the tyre,(Fig.2) make the valve keep a distance from the bead breaker shoe.
4. Repeat the operation until the bead is separate from the rim completely

Fig.2

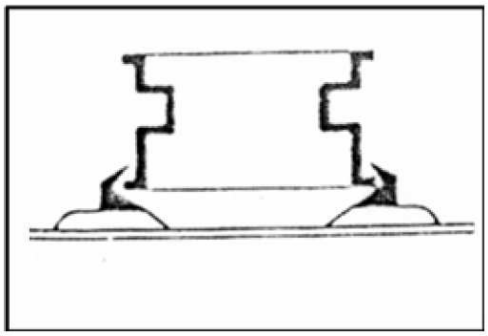


Fig.3

5. Choose the locking style according to the different rim, then lock the tyre on the turntable.(For the aluminum rim, we use outside locking, but not use inside locking) (Fig.3)

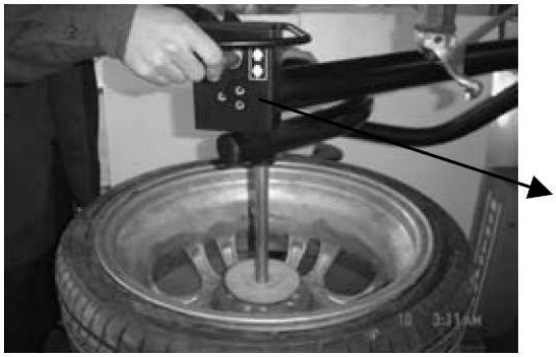


Fig.4

6.when operate the low-profile and stiff tyre, position the clamp within the demand dimension, put the rim on the turntable, put the pressing roller (Fig.4-1) on center hole of the rim, dial down the valve(Fig.4-2), press down the rim until rim position to the surface of clamps, (Fig.3), press down the pedal, the rim will be locked. Dial up the valve (Fig.4-2) to lift the pressing roller, to make it in the out working position, take out the pressing roller, put it on the support.

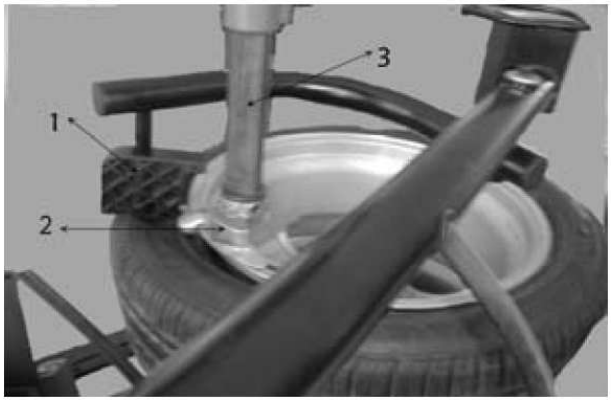


Fig.5

7. Press the tyre by pressing blade(Fig.5-1) to make the rim separate from the tyre. (Lubricate the tyre and rim, by the brush with the commercial lubricant(liquid state or cream state), other lubricant can not be used. Choose the demount direction according to the direction of the tyre.

8.Put the hexangular shaft in the working position, (Fig.5-3)make the mounting head near to the bead (Fig.5-2),the distance from the rim to mounting head should be 4-5mm(Fig.6), locking the pull-push horizontal arm(full-automatic); or swing arm (the semi-automatic machine positioned by handwheel)

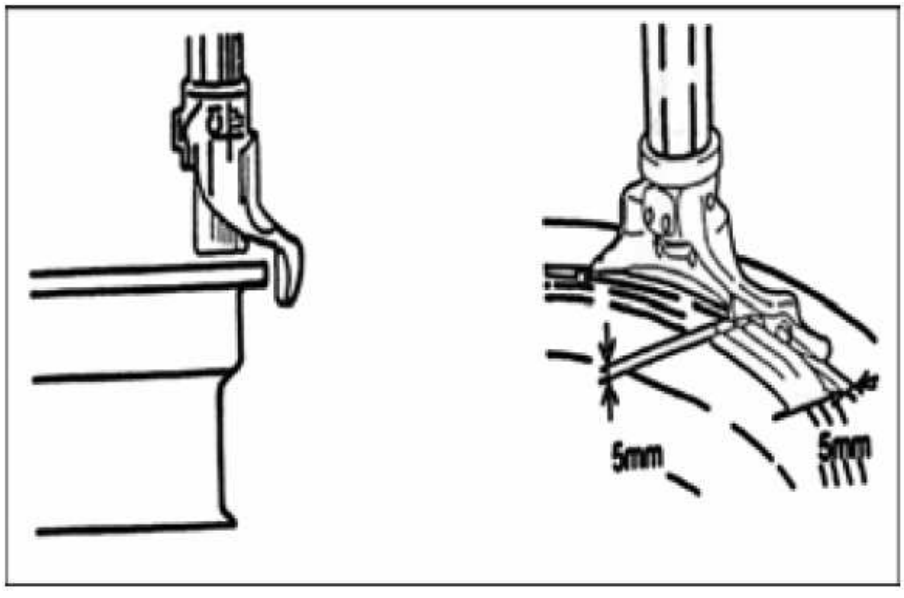


Fig.6

Fig.7

Press the tyre by pressing blade near to the mounting head,(Fig.7-1).Place the lever (Fig.7-2)between the tyre and mounting head.

Fig.8

Uplift the pressing blade to the other side of the mounting head, press the tyre, lifter the bead to the mounting head, (Fig .8), press the pedal, to rotate the turntable in clockwise , until the bead separate completely. In order not to damage the valve on the tyre, it will keep the distance from the mounting head during the operation, the distance should be 10mm on the right side.
Note: if the operation not smoothly, stop at once, lift the pedal, rotate the turntable in the counter clockwise direction, to get the obstacle out.

Fig.9

10.Take out the tube if there has, demount the other side of the tyre, place the bead breaker disk under the lower part of the tyre,(Fig.9) , insert the lever to the tyre and lift the tyre on the mounting head (Fig.10), press the pedal to rotate the turntable clockwise, demount the tyre.

Fig.10

11.Take off the tyre from the rim, get off the rust and oxidation material on rim and tyre.

Mounting the tyre:

Note:Make sure the tyre is match to the rim.

Fig.11

1. Lock the rim on the turntable.
2. Lubricate the tyry and rim on both sides. (Fig.11)

Fig.12

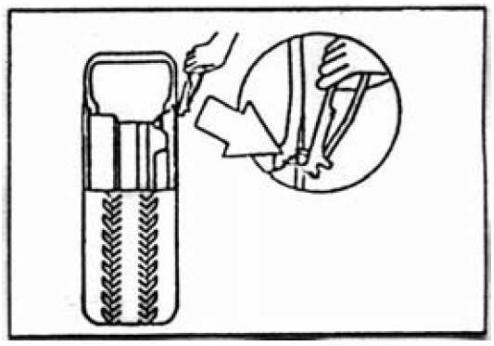
3.Make the mounting head on the edge of rim, the valve face to the mounting head, put the tyre on the upside of tail of the mounting head, and the other side under the front part of the mounting head, meantime press the tyre to the seat of the rim (Fig.12) Press the turntable control pedal, the turntable will rotate in clockwise direction, mount the bottom part of the tyre on the rim.

Fig.13

4. Continue the operation, to mount the tyre, if the tyre is wide or low-profile or stiff, we can press the pressing blade,(Fig.12)rotate the turntable in clockwise about 90°, then fix the pressing device to the mounting head, (Fig.13) then rotate the turntable until the operation is finish. (Fig.13)
For the others please reference to the manual.

User's manual for the helping device672HY SIST4

Fig.1

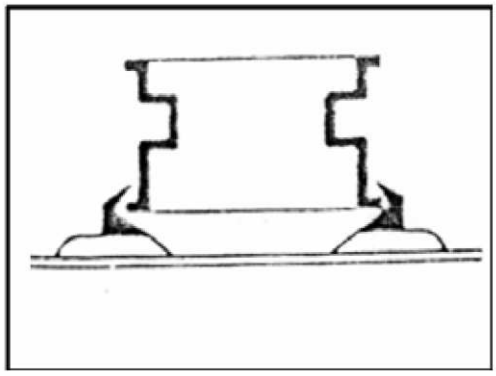


1. Connect the electrical and air supply to test the machine,if there is no problem, then tilt back the vertical arm.
2.Release all the air inside the tyre.
Remove the weight on the rim. (1)

Fig.2

3. Place the tyre between the bead breaker blade and rubber pad,then step the bead breaker cylinder control pedal to separate the bead from the rim, make it repeat until the bead is separate from the rim completely (include the other side). (2)

Fig.3

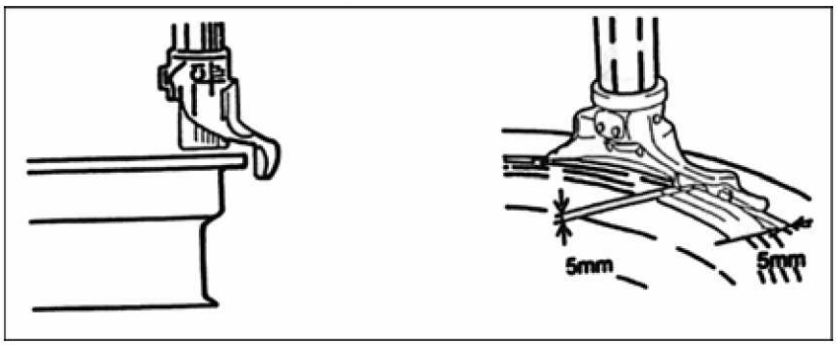


4.If the rim is aluminum, which one can only clamped from the outside, the cover should be put on. Open the four jaws, place the tyre on the turntable, then clamp the rim tightly. (3)

Fig.4

5.Press the tyre by the roller, grease the bead with the greaser. (4)

Fig.5



6.Tilt forward the vertical arm, and lock the position of the mounting head. (5)

Fig.6

7.Place the lever between the tyre and rim. (6)
8.Uplift the roller and place it in the non-working position. (6) (7)

Fig.7

9.Uplift the tyre to the mounting head by the lever, then turn the turntable clockwise,to make the rim separate from the upper side of the tyre. (7)

Fig.8

10.Insert the lever to the lower seat of the tyre, place the bead breaker disk under the lower part of the tyre and uplift it, to make the lower tyre to the upside of the rim, then lower the bead breaker disk to the non-working position (8), press the lever to make the lower tyre to the mounting head, turn clockwise to make it separate completely.

Fig.9

Fig.10

11.Clean the oil dirt and dust on the rim, and grease both sides of the tyre before the mounting. (10)

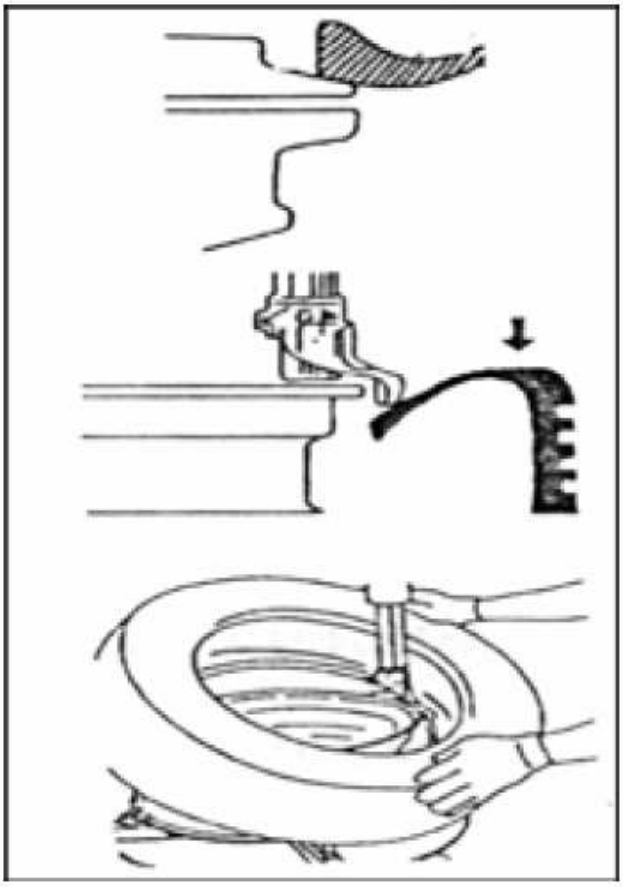


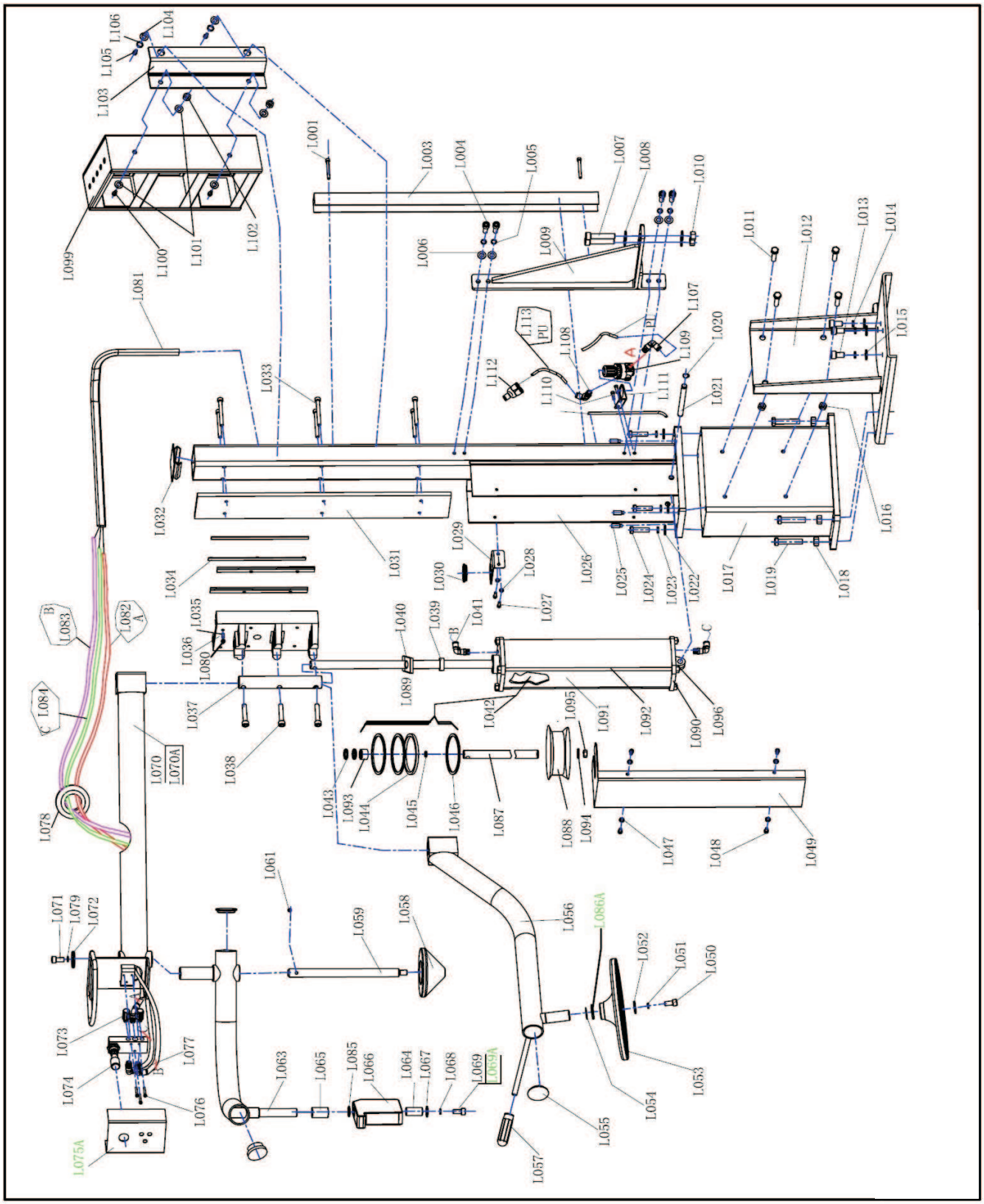
Fig.11

12.Mounting the lower side of the tyre first. (11)
13.Fix the upper side of the tyre and the mounting head, place the pressing roller on the tyre, on the other side of tyre pressed by the pressing blade, turn clockwise to mount the upper side of the tyre.

Fig.12

14.Release the pressing roller and bead breaker disk and set (12) them in their non-working position, then release the tyre to finish the operation.

672HY SIST3


L001
L003
L004
L005
L006
L007
L008
L009
L010
L011
L012
L013
L014
L015
L016
L017
L018
L019
L020
L021
L022
L023
L024
L025
L026
L027
L028
L029
L030
L031
L032
L033
L034
L035
L036
L037
L038
L039
L040
L041
L042
L043
L044
L045
L046
L047
L048
L049
L050
L051
L052
L053
L054
L055
L056
L057
L058
L059
L061
L063
L064
L065
L066
L067
L068
L069
L069A
L070
L070A
L071
L072
L073
L074
L075A
L076
L077
L078
L079
L080
L081
L082
L083
L084
L085
L086A
L087
L088
L089
L090
L091
L092
L093
L094
L095
L096
L099
L100
L101
L102
L103
L104
L105
L106
L107
L108
L109
L110
L111
L112
L113
PU
A
B
C

672HY SIST3

Ref.	Description	Specification	Q'TY	Note	
L001	Screw	M6X50	2	GB70-85	
L002					
L003	Bracket	PL330.00.16	1		
L004	Screw	M8X25	4	GB70-85	
L005	Elastic washer	8	4	GB93-87	
L006	Flat washer	8	4	GB95-85	
L007	Screw	M12X60	2	GB70-85	
L008	Flat washer	12	4	GB95-85	
L009	Support	PL330.06.00	1		
L010	Locknut	M12	2		
L011	Screw	M10X40	4	GB5781-86、	
L012	Bracket	PL330.07.00	1		
L013	Screw	M12X25	3	GB70-85	
L014	Flat washer	12	3	GB95-85	
L015	Elastic washer	12	3	GB93-87	
L016	Nut	M10	4	GB41-86	
L017	Fixing bracket	PL330.08.00	1		
L018	Nut	M12	4	GB41-86	
L019	Screw	M12X60	4	GB5781-86、	
L020	Seeger ring	12#	2	GB894.1-86	
L021A	Cylinder spindle	PL330.00.24	1		
L022	Flat washer	12	4	GB95-85	
L023	Elastic washer	12	4	GB93-87	
L024	Screw	M12X40	4	GB5781-86	
L025	Screw	M10X20	4	GB79-85	
L026	Main bracket	PL330.04.00	1		
L027	Screw	M5X10	2	GB70-85	
L028	Flat washer	5	2	GB95-85	
L029	Support	PL330.00.17.00	1		
L030	Ring	φ43Xφ30.5X7.5	1		
L031	Slide rail	PL330.00.05	1		
L032	Cover	PL330.00.04.00	1	Nylon 66	
L033	Screw	M8X70	6	GB70-85	
L034	Wearable plate	PL330.00.21A	4	Nylon 66	
L035	Screw	M10X20	9	GB79-85	
L036	Moving bracket	PL330.00.01B	1		
L037	Connecting spindle	PL330.00.02	1		
L038	Screw	M10X50	3	GB70-85	
L039	Ring	φ27Xφ20X6	1		
L040	Felt	φ30Xφ20X10	1		
L041	"L"-union	G1/8" 、 φ6	2		
L042	Clamp control cylinder assy	PL330.05.00	1	φ100Xφ20X365	
L043	O-ring	25X3.1	2		
L044	O-ring	100X5.7	2		
L045	O-ring	14.5X2	1		

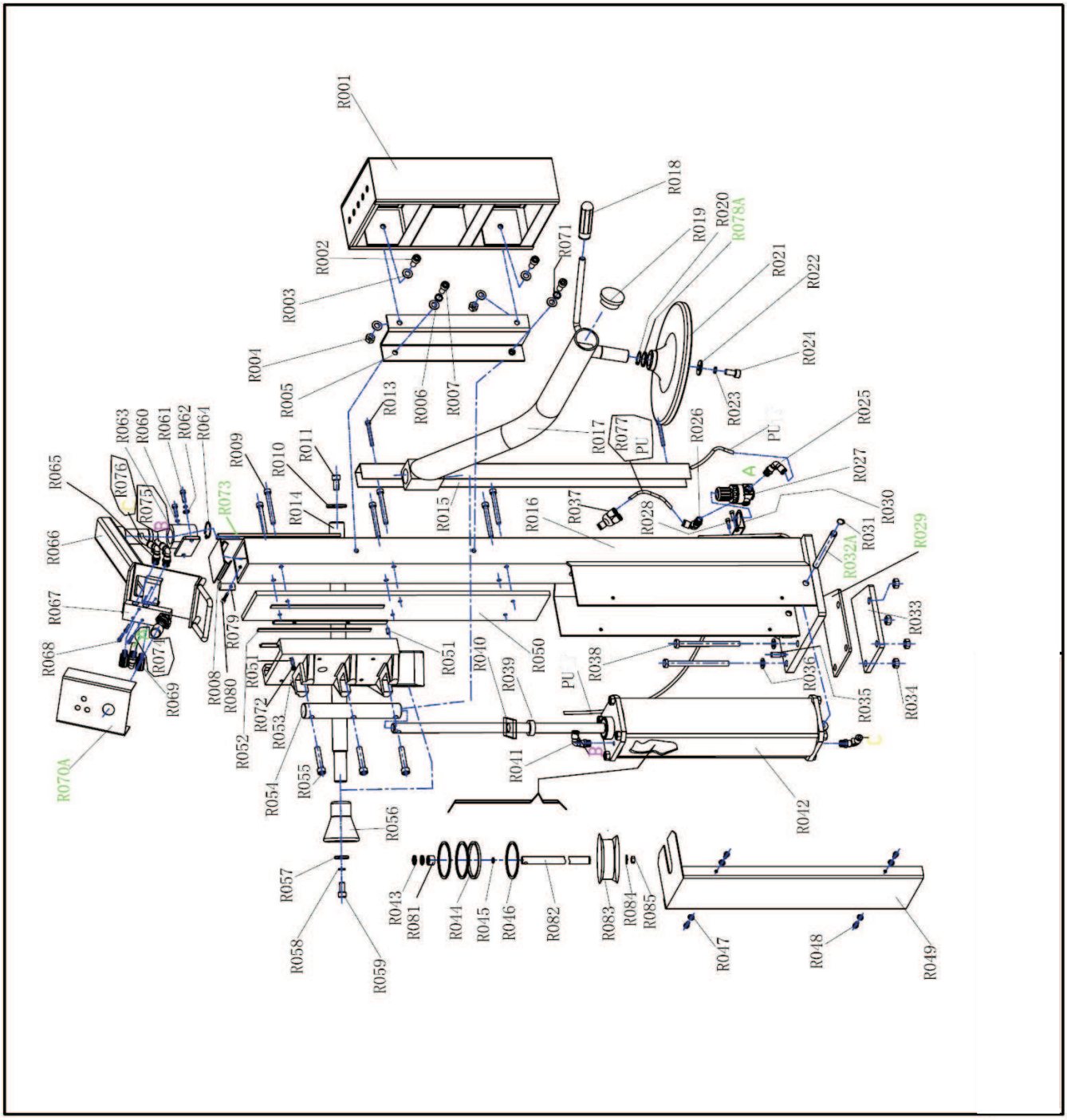
672HY SIST3

Ref.	Description	Specification	Q'TY	Note	
L046	O -ring	100X3.1	2		
L047	Flat washer	5	4	GB95-85	
L048	Screw	M5X10	4	GB70-85	
L049	Covering plate	PL330.00.15	1		
L050	Screw	M10X20	1	GB70-85	
L051	Elastic washer	10	1	GB93-87	
L052	Washer	Φ30XΦ11X3	1		
L053	Bead break disk	PL330.00.14	1		
L054	Seeger ring	25#	1	GB894.1-86	
L055	Cover	PL330.00.10	3	Nylon 66	
L056	Bend arm	PL330.03.00	1		
L057	Handle cover	Φ11.6	1		
L058	Roller	PL330.00.12	1	Nylon 66	
L059	Connecting rod	PL330.00.11	1		
L061	Screw	PL330.00.13.00	1		
L062					
L063	Rotate arm	PL330.02.00	1		
L064	Length spacer	PL330.02.04	1		
L065	Length spacer	PL330.02.05	1		
L066	Pressing blade	PL330.00.08	1		
L067	Pressing blade washer	PL330.00.09	1		
L068	Elastic washer	10	1	GB93-87	
L069	Screw	M10X20	1		
L069A	Screw	M10X70	1		
L070	Support arm	PL330.01.00	1	PL330.01.00A	
L070A	Support arm	PL330.01.00	1	PL330.01.00B	
L071	Screw	M10X20	1	GB70-85	
L072	Washer	PL330.00.06	1		
L073	Silencer	G1/8"	2		
L074	Valve	G1/8"	1		
L075A	Valve cover	PL330.00.07C	1		
L076	Screw	M4X30	3	GB70-85	
L077	"L"-union	G1/8" 、 Φ6	3		
L078	Cable protect ring	30X26X8	1		
L079	Elastic washer	10	1		
L080	Nut	M10	9		
L081	Hose	⌀14X1	0.85m		
L082	PU hose-A	⌀6X4	3.4m		
L083	PU hose-B	⌀6X4	2.2m		
L084	PU hose-C	⌀6X4	2.4m		
L085	Adjusting washer	PL330.00.22	1		
L086A	Washer	PL330.00.23A	1		
L087	Cylinder shaft	PL330.05.03	1		
L088	Piston	PL330.05.04	1		
L089	Front housing for cylinder	PL330.05.01	1		
L090	Rear housing for cylinder	PL330.05.05	1		

672HY SIST3

Ref.	Description	Specification	Q'TY	Note	
L091	Cylinder body	PL330.05.02	1		
L092	Union	PL330.05.06	4		
L093	Guide spacer	PL330.05.07	1		
L094	Flat washer	ø10	1		
L095	Locknut	M10	1		
L096	Locknut	M8	8		
L097					
L098					
L099	Tool box	PL330.09.00	1		
L100	Screw	M10X25	2	GB70-85	
L101	Flat washer	10	4	GB95-85	
L102	Locknut	M10	2		
L103	Fixing plate	PL330.00.18	1		
L104	Flat washer	10	2	GB95-85	
L105	Screw	M10X20	2	GB70-85	
L106	Elastic washer	10	2		
L107	"L"union	G1/4" 、 ф6	1		
L108	"L"union	G1/4" 、 ф8	1		
L109	Pressure reduce valve	Max.10bar	1		
L110	Screw	M5X12	2	GB70-85	
L111	Valve bracket		1		
L112	Y-ring	ø8	1		
L113	PU hose	ø8X5	1.4m		
L114					
L115					
L116					
L117					
L118					
L119					
L120					
L121					
L122					
L123					
L124					
L125					
L126					
L127					
L128					
L129					
L130					
L131					
L132					
L133					
L134					
L135					

672HY SIST4


R001
R002
R003
R004
R005
R006
R007
R008
R009
R010
R011
R012
R013
R014
R015
R016
R017
R018
R019
R020
R021
R022
R023
R024
R025
R026
R027
R028
R029
R030
R031
R032
R032A
R033
R034
R035
R036
R037
R038
R039
R040
R041
R042
R043
R044
R045
R046
R047
R048
R049
R050
R051
R052
R053
R054
R055
R056
R057
R058
R059
R060
R061
R062
R063
R064
R065
R066
R067
R068
R069
R070
R070A
R071
R072
R073
R074
R075
R076
R077
R078
R078A
R079
R080
R081
R082
R083
R084
R085
PU

672HY SIST4

Ref.	Description	Specification	Q'TY	Note	
R001	Tool box	PL330.09.00	1		
R002	Screw	M10X25	2	GB70-85	
R003	Flat washer	10	4	GB95-85	
R004	Locknut	M10	2		
R005	Fixing plate	PL330.00.18	1		
R006	Flat washer	10	2	GB95-85	
R007	Screw	M10X20	2	GB70-85	
R008	Cover	PL330.00.04	1		
R009	Screw	M8X70	6	GB70-85	
R010	Washer	AL335.00.06	1	Nylon 66	
R011	Screw	M10X20	1	GB70-85	
R012					
R013	Screw	M6X50	2	GB70-85	
R014	Moving spindle	AL335.00.05	1		
R015	Bracket	PL330.00.16	1		
R016	Main support	AL335.03.00	1		
R017	Bend arm	AL335.02.00	1		
R018	Handle cover	Φ11.6	1		
R019	Cover	PL330.00.10	1		
R020	Seeger ring	25	1	GB894.1-86	
R021	Bead break disk	PL330.00.14	1		
R022	Washer	Φ30XΦ11X3	1		
R023	Elastic washer	10	1	GB93-87	
R024	Screw	M10X20	1	GB70-85	
R025	"L" union	G1/4" 、 Φ6	1		
R026	"L"union	G1/4" 、 Φ8	1		
R027	Pressure-redule valve	Max.10bar	1		
R028	Screw	M5X12	2	GB70-85	
R029	Plate	AL355.00.08	1		
R030	Valve support		1		
R031	Seeger ring	12	2	GB894.1-86	
R032A	Spindle	PL330.00.24	1		
R033	Metal plate	AL335.00.07	1		
R034	Locknut	M10	4		
R035	Screw	M10X20	4	GB79-85	
R036	Flat washer	10	4	GB95-85	
R037	Y union	⌀8	1	GB93-87	
R038	Screw	M10X130	4	GB5780-86	
R039	Ring	Φ27XΦ20X6	1		
R040	Felt	Φ30XΦ20X10	1		
R041	"L" union	G1/8" 、 Φ6	2		
R042	Cylinder assy	PL330.05.00	1	Φ100XΦ20X365	
R043	O-ring	25X3.1	2		

672HY SIST4

Ref.	Description	Specification	Q'TY	Note	
R044	O -ring	100X5.7	2		
R045	O -ring	14.5X2	1		
R046	O -ring	100X3.1	2		
R047	Flat washer	5	4	GB95-85	
R048	Screw	M5X10	4	GB70-85	
R049	Cylinder cover plate	PL330.00.15	1		
R050	Slide rail	PL330.00.05	1		
R051	Screw	M10X20	9	GB79-85	
R052	Wearable plate	PL330.00.21A	4		
R053	Moving bracket	AL335.00.01C	1		
R054	Connecting spindle	PL330.00.02	1		
R055	Screw	M10X50	3	GB70-85	
R056	Roller	AL335.00.03	1		
R057	Roller washer	AL335.00.04	1		
R058	Elastic washer	10	1	GB93-87	
R059	Screw	M10X20	1	GB70-85	
R060	Elastic washer	6	2	GB93-87	
R061	Screw	M6X20	2	GB70-85	
R062	Flat washer	6	2	GB95-85	
R063	Fixing spacer	AL335.01.03.00	1		
R064	Seeger ring	30	1	GB894.1-86	
R065	"L"-union	G1/8" 、 φ6	3		
R066	Valve bracket	AL335.01.00	1		
R067	Valve	G1/8"	1		
R068	Screw	M4X30	3	GB70-85	
R069	Silencer	G1/8"	2		
R070A	Valve cover	PL330.00.07C	1		
R071	Elastic washer	10	2	GB93-87	
R072	Nut	M10	9		
R073	Hose	⌀14X1	0.5m		
R074	PU hose-A	⌀6X4	1.9m		
R075	PU hose-B	⌀6X4	1.8m		
R076	PU hose-C	⌀6X4	2.0m		
R077	PU hose	⌀8X5	0.3m		
R078A	Washer	PL330.00.23A	1		
R079	Plate	AL335.00.02	1		
R080	Screw	M6X10	1		
R081	Spacer	PL330.05.07	1		
R082	Shaft for cylinder	PL330.05.03	1		
R083	Piston	PL330.05.04	1		
R084	Flat washer	⌀10	1		
R085	Locknut	M10	1		
R086					

Dichiarazione CE di conformità
Déclaration CE de conformité
EC Declaration of Conformity
EG-Konformitätserklärung

OMA S.p.A.
via dell'Artigianato - 36045 LONIGO (VI) - Italy
Telefono ++/+444/436199 - Telefax +/+444/436208

con la presente si dichiara che - hereby declare that
déclare par la presente que - erklären hiermit, daß
por la presente declara, que

672HY SIST3-4

I — È stato costruito in conformità alla normativa 98/37/CE

F — a été construite en conformité avec les Directive 98/37/CE.

GB — was manufactured in conformity with the Directive 98/37/CE.

D — in Übereinstimmung mit den Bestimmungen der Richtlinie 98/37/.

E — estádo fabricado según las disposiciones 98/37/CE.

10/10/2007

Ing. Carlo Cordonatto